Table 10: Tat

HXB2 Location	Author Location	Sequence	Immunogen	Species(HLA)	References
Tat(1–20)	Tat(1-20 LAI)	MEPVDPRLEPWKHPG- SQPKT	Vaccine	murine(H-2 <sup>d</sup> )	[Hinkula1997]
Vaccine:	Vector/type: DNA	Strain: LAI HIV compo	onent: Nef, Tat, Rev		
	0	sponses were observed in animesponse to vaccination was obs		epidermally rather than with in out Nef and Tat, less for Rev	tramuscular protein
Tat(16–35)	Tat(16–35 LAI)	SQPKTACTTCYCKKC- CFHCQ	Vaccine	$murine(H-2^d)$	[Hinkula1997]
Vaccine:	Vector/type: DNA	Strain: LAI HIV compo	onent: Nef, Tat, Rev		
		sponses were observed in animesponse to vaccination was obs		epidermally rather than with in out Nef and Tat, less for Rev	tramuscular protein
Tat(17–32)	Tat(17–32) T-cell response to thi	QPKTACTNCYCKRCCF is epitope persisted after serore		human( )	[Ranki1997]
Tat(31–50)	Tat(31–50 LAI)	CFHCQVCFTTKALGIS- YGRK	Vaccine	$murine(H-2^d)$	[Hinkula1997]
•	0	-		epidermally rather than with in out Nef and Tat, less for Rev	tramuscular protein
Tat(33–48)	Tat(33–48) T-cell response to this	HCQVCFMTKGLGISYG is epitope persisted after serore		human()	[Ranki1997]
Tat(46–65)	Tat(46–65 LAI)	SYGRKKRRQRRRPPQ- GSQTH	Vaccine	murine(H-2 <sup>d</sup> )	[Hinkula1997]
Vaccine:	Vector/type: DNA	Strain: LAI HIV compo	onent: Nef, Tat, Rev		
		sponses were observed in animesponse to vaccination was obs		epidermally rather than with in out Nef and Tat, less for Rev	tramuscular protein
	Tat(61–80 LAI)	GSQTHQVSLSKQPTSQ-	Vaccine	murine(H-2 <sup>d</sup> )	[Hinkula1997]
Tat(61–80)	144(01 00 2111)	PRGD			
,	Vector/type: DNA	PRGD	onent: Nef, Tat, Rev		

Γat(67–86)	Tat(67–86 LAI)	VSLSKQPTSQPRGDPT- Vaccine GPKE		$murine(H-2^d)$	[Hinkula1997]				
Vaco	cine: Vector/type: DNA	Strain: LAI HIV	/ component: Nef, Tat, Rev						
	<u> </u>	•	in animals vaccinated with DNA was observed to peptides throug		ntramuscular protein				
Tat()	Tat()		Vaccine	human()	[Calarota1999a]				
Vaco	cine: Vector/type: DNA	HIV component: Net	f, Tat, Rev						
	generated • The nef DNA imm • Highly active antire	The nef DNA immunization induced the highest and most consistent CTLp activity, IFN- $\gamma$ production, and IL-6 and IgG responses Highly active antiretroviral treatment (HAART) did not induce new HIV-specific CTL responses but reduced viral load, while DNA vaccination induced new immune responses but did not reduce viral load – thus this is a potentially complementary and promising							
at()	Tat()		HIV-1 infection, Vacc	ine human()	[Calarota2001]				
Vaco	cine: Vector/type: DNA	e: Vector/type: DNA HIV component: Nef, Rev, Tat Stimulatory Agents: CpG motifs							
			response, and comments on C g of CTL and Th proliferative re						
at( )	Tat()		Vaccine	$murine(H-2^d)$	[BillautMulot2001]				
Vaco									
	<ul><li>weeks post immuni</li><li>Strong but non-last effective than DNA</li><li>Immunization with</li></ul>	<ul> <li>DNA vaccinated BALB/c mice primed and boosted with a multiepitopic vaccine with IL-18 gave lymphoproliferative responses 7 weeks post immunization</li> <li>Strong but non-lasting HIV-specific CTL responses were detected by a Cr-release assay and DNA prime + DNA boost was more effective than DNA prime + protein boost</li> <li>Immunization with either the multiepitopic DNA or with the mixed DNA vaccine resulted in Th1 cytokines production (IL-2 and IFNγ) in spleen cell cultures stimulated by Tat and Gag, while Th2 cytokines IL-4 and IL-10 production was not detectable</li> <li>Co-administration of IL-18 increased T-cell responses but decreased anti-HIV antibody levels</li> </ul>							